

**Nimbus Powerplant  
10-30 Powerplant**

**Ancillary Services**

<b>Nimbus Ancillary Services</b>	
Spinning Reserve	No
Non-Spinning Reserve	No
Replacement Reserve	No
Regulation/Load Following	No
Black Start	Yes
Voltage Support	Yes

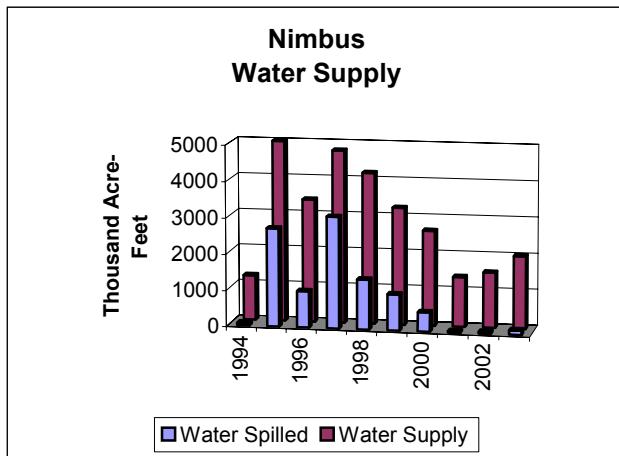
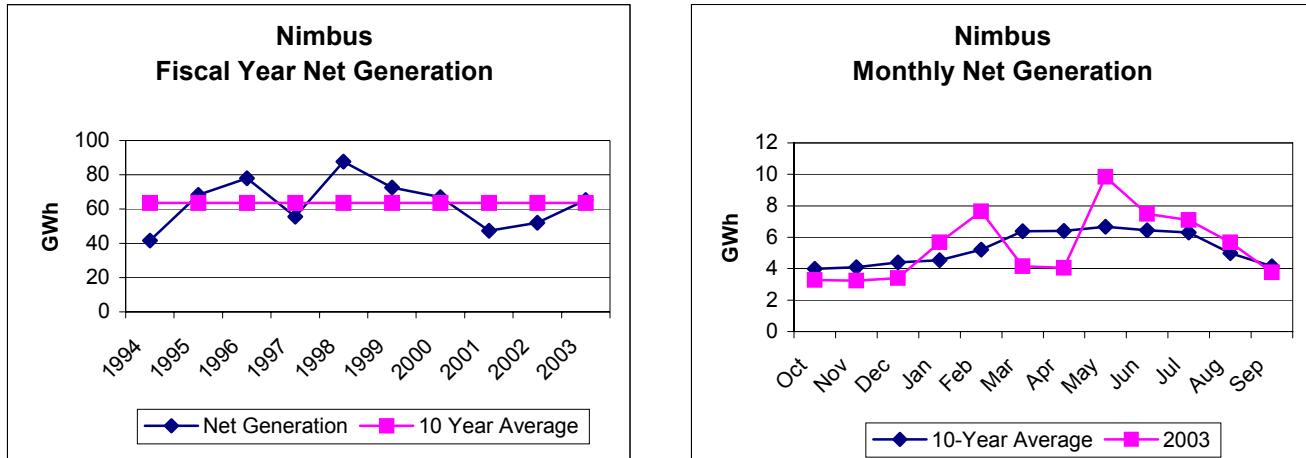
**Generators**

<b>Nimbus Generators</b>			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	6,750	0	6,750
2	6,750	0	6,750
2 Units	13,500	0	13,500

The maximum operational capacity is limited to 12,00 kW due to head.

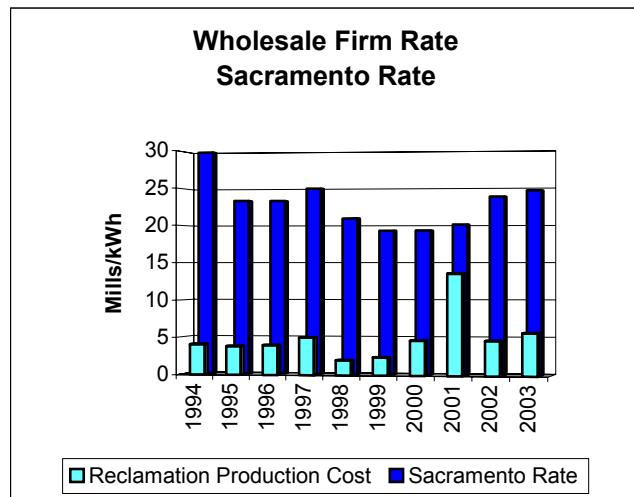
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**Generation**

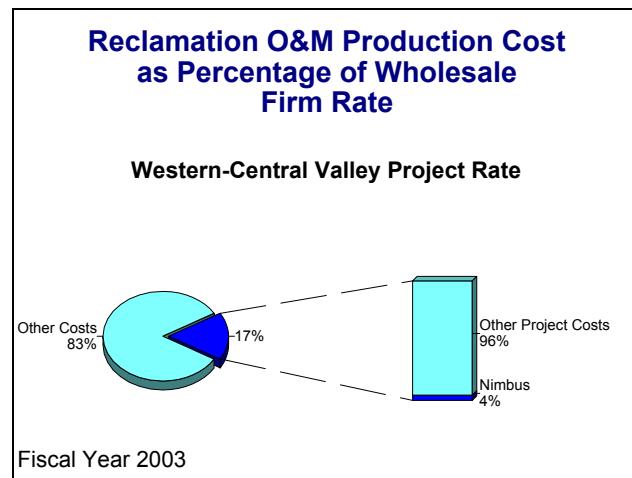


### Prime Laboratory Benchmarks

#### Benchmark 1 Wholesale Firm Rate

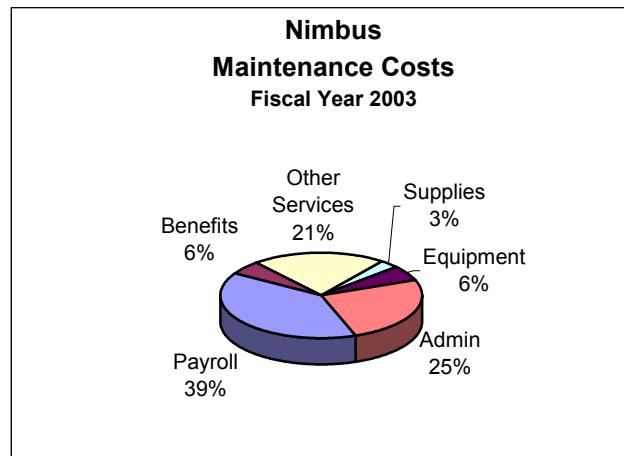
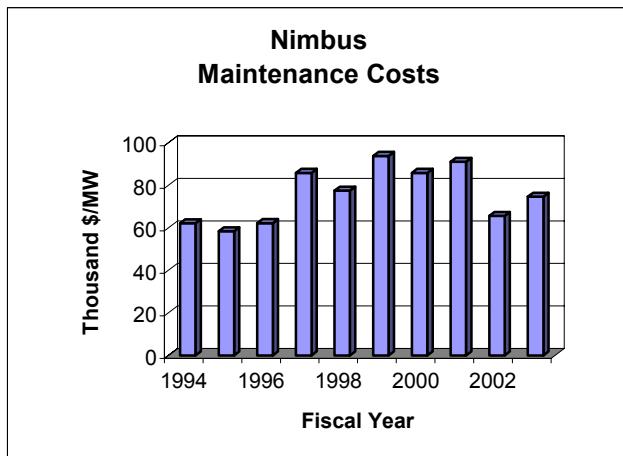
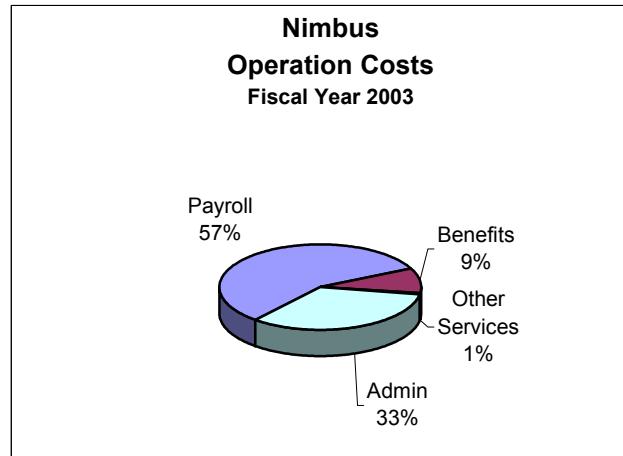
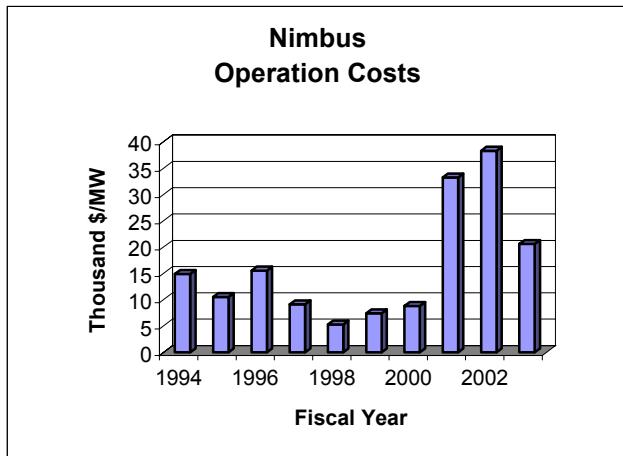


#### Benchmark 2 Reclamation's Production Cost as Percentage of Wholesale Firm Rate



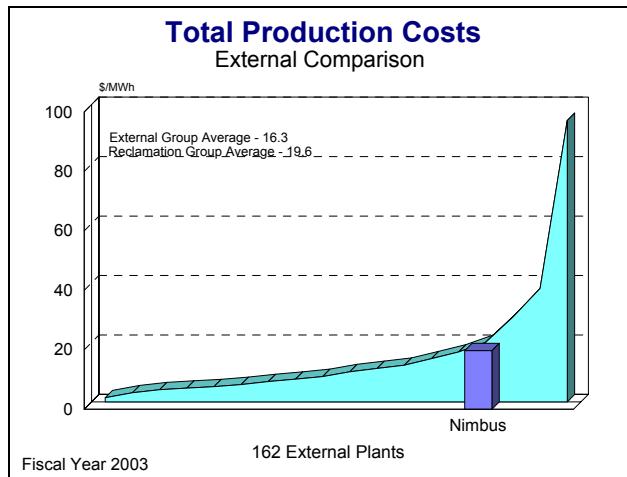
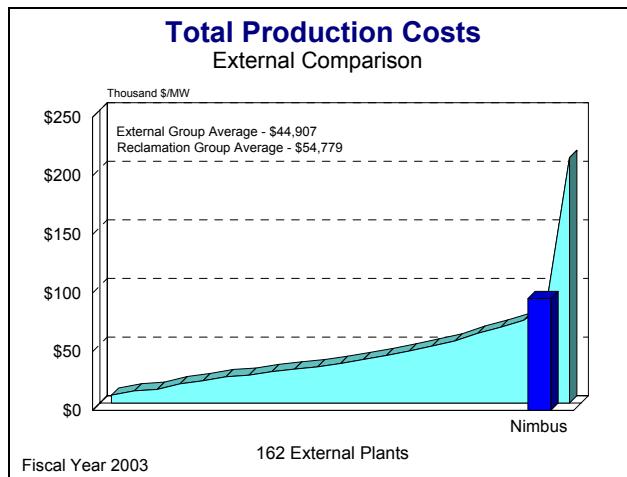
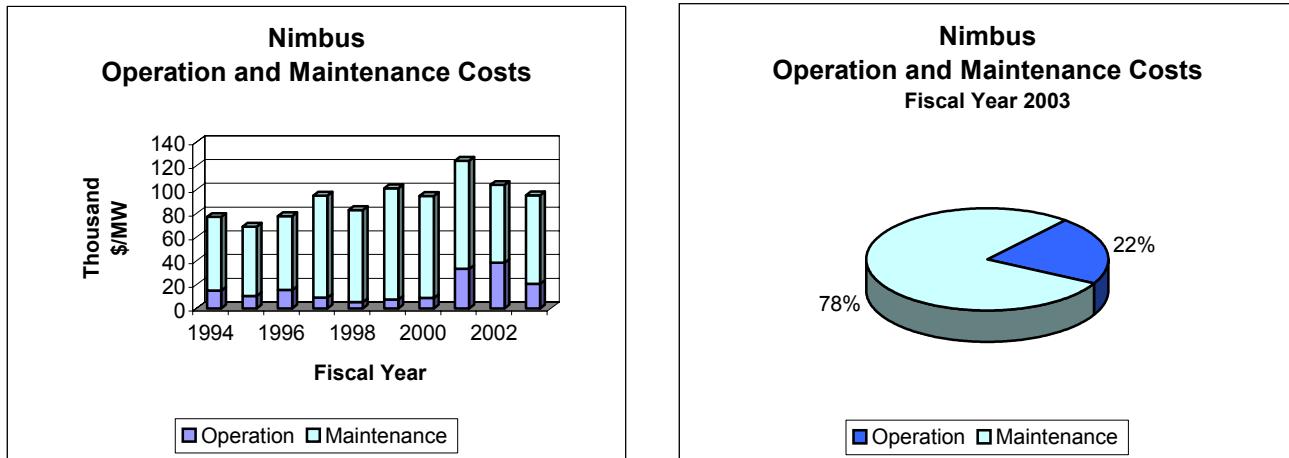
**Nimbus Powerplant**  
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**Benchmark 3**  
**Production Cost**



**Nimbus Powerplant**  
**10-30 Powerplant**

**Benchmark 3**  
**Production Cost**



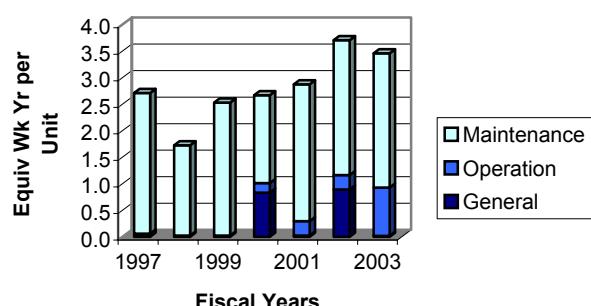
**Nimbus Powerplant  
10-30 Powerplant**

**Benchmark 4  
Workforce Deployment**

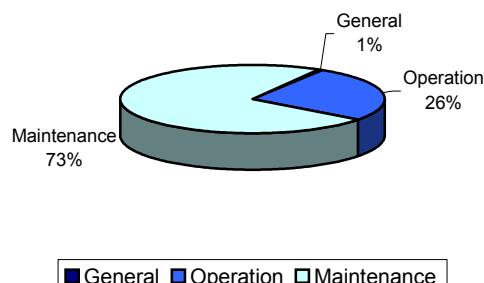
**Nimbus  
2003      Equivalent  
Work Year Levels**

	Equiv Work Year Charged to Powerplant	Leave Additive	Denver and Washington Equiv Work Year Additive	Total Equiv Work Year Allocated to Powerplant	Total Equiv Work year per Generating Unit	Total Equiv Work Year per Megawatt
General	0	0	0.04	0.04	0.02	0.003
Operation	1.62	0.19	0	1.81	0.91	0.13
Maintenance	4.54	0.53	0	5.07	2.53	0.38
Total Staffing	6.16	0.72	0.04	6.93	3.46	0.51

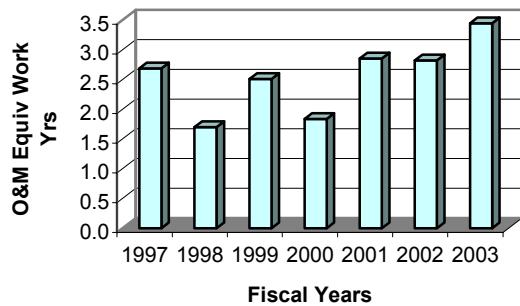
**Nimbus  
Equivalent Work Year per Unit**



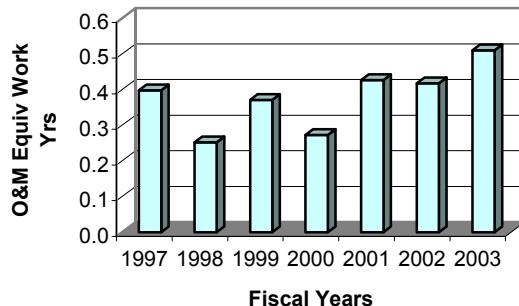
**Nimbus  
Equivalent Work Year per Unit  
2003**



**Nimbus  
O&M Equivalent Work Years per Unit**

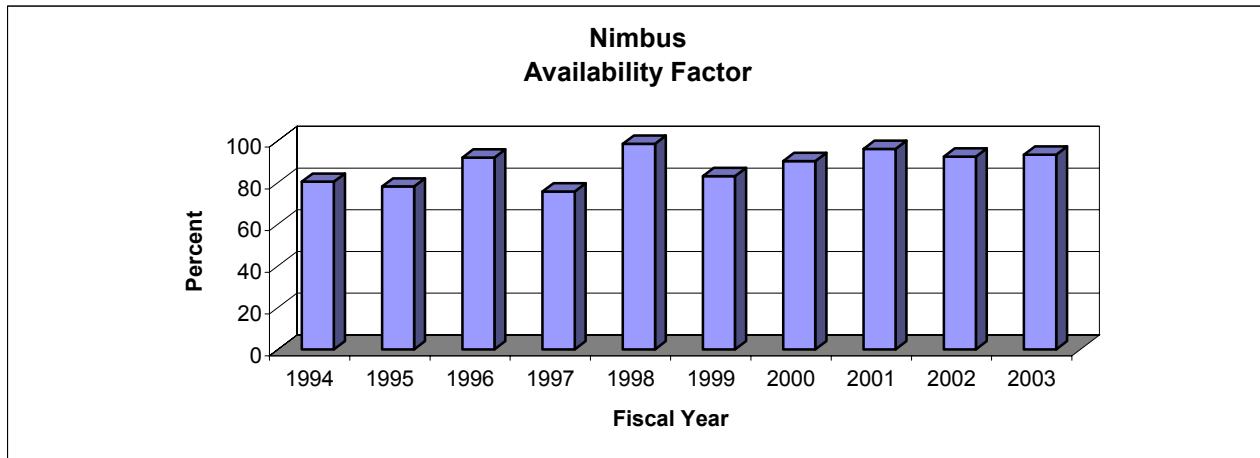


**Nimbus  
O&M Equivalent Work Years per MW**

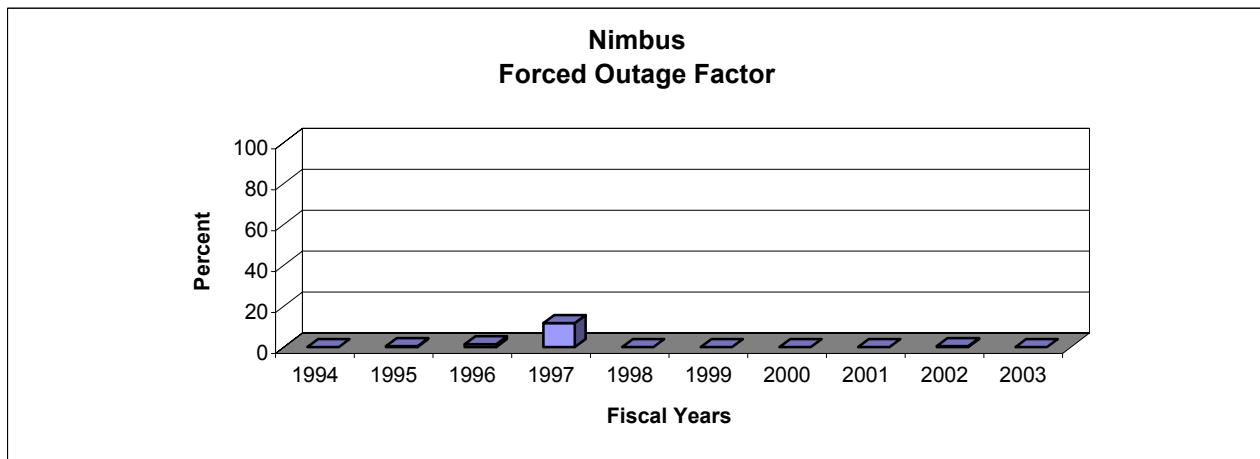


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**Benchmark 5  
Availability Factor**



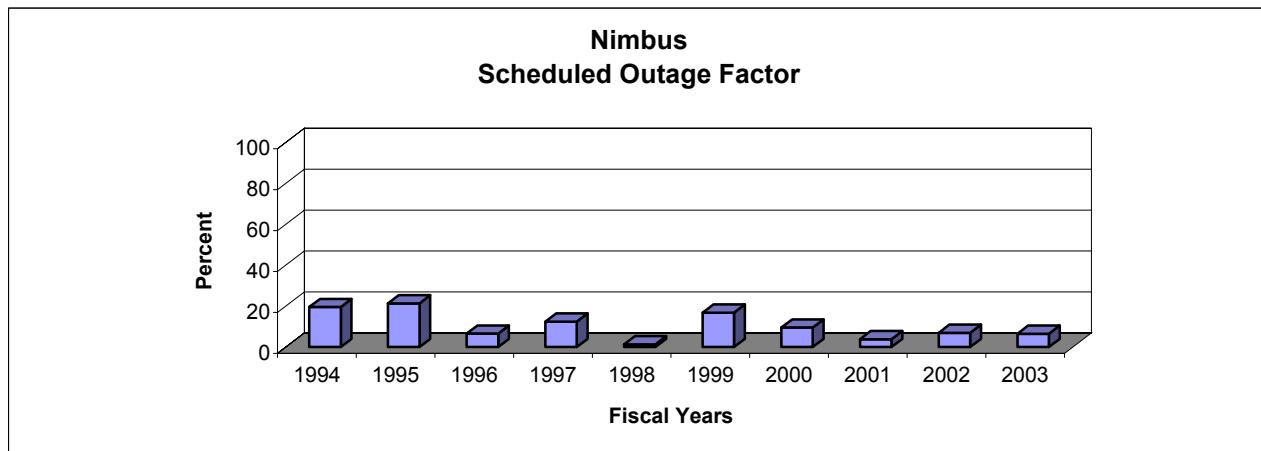
**Benchmark 6  
Forced Outage Factor**



FY-97 - Oil leak in Unit 1 Kaplan wheel control line

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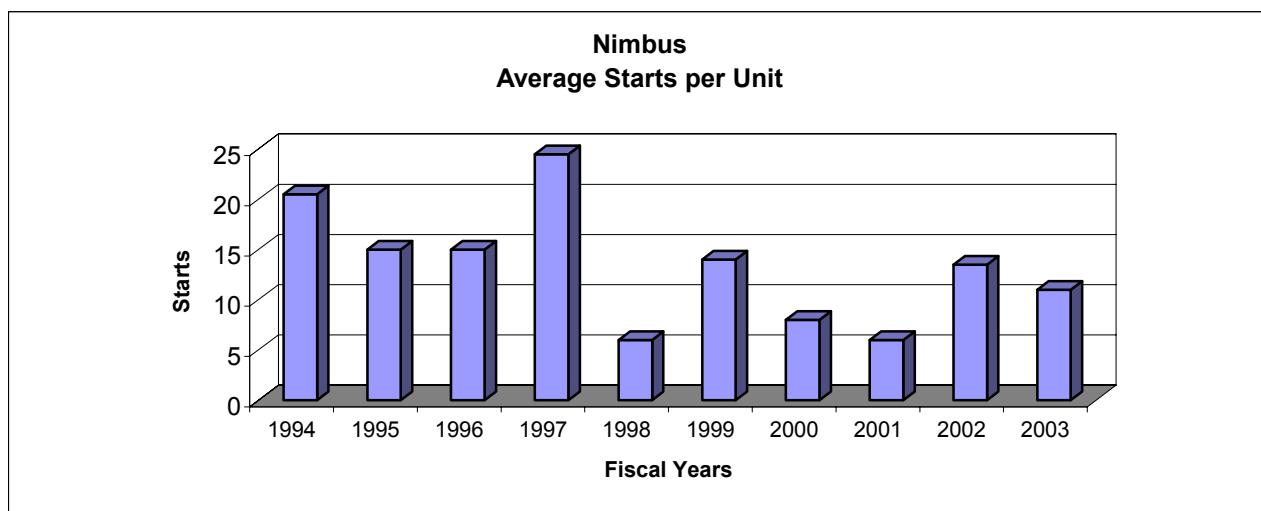
**Benchmark 7  
Scheduled Outage Factor**



FY-94 - Extended maintenance

FY-95 - Unit 1 turbine repair

**Starts**



## Benchmark Data Comparison

Fiscal Year 2003	Nimbus Powerplant	Reclamation Average 10-30 MW Group	Total Reclamation Average	Industry Average	Best Performers
<b>Wholesale Firm Rate Mills/kWh</b>	24.6	Not Applicable	*23.1	Not Available	Not Available
<b>Production Cost as Percentage of Wholesale Firm Rate</b>	0.76%	Not Applicable	12.0%	Not Applicable	Not Applicable
<b>O&amp;M Cost \$/MWh</b>	19.7	17.0	2.7	16.3	1.1
<b>O&amp;M Costs \$/MW</b>	95,287	54,175	7,315	44,907	3,108
<b>O&amp;M Equiv Work Year per MW</b>	0.5	0.3	0.04	Not Available	0.01
<b>Availability Factor</b>	93.5	84.2	83.6	**88.9	99.1
<b>Forced Outage Factor</b>	0.0	0.7	1.5	**2.4	0.0
<b>Scheduled Outage Factor</b>	6.5	15.1	14.9	**8.7	0.0

\*Weighted by Net Generation

\*\*2002 NERC Average